

FORM PTO-1390 (Modified)
(REV 11-98)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

RBL0071

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

09/763075

INTERNATIONAL APPLICATION NO.
PCT/DE99/02569INTERNATIONAL FILING DATE
18 August 1999 (18/08/99)PRIORITY DATE CLAIMED
19 August 1998 (19/08/98)

TITLE OF INVENTION

METHOD FOR THE REAL-TIME BILLING OF TELECOMMUNICATION LINKS WHEN A SUBSCRIBER IS
LOCATED OUTSIDE HIS HOME NETWORK

APPLICANT(S) FOR DO/EO/US

HAKE, Jens et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ A copy of the International Search Report (PCT/ISA/210).
8. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
9. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
10. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 13 to 20 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☒ Certificate of Mailing by Express Mail
20. ☒ Other items or information:

Check No. 050964

U.S. APPLICATION NO. (IF KNOWN) SEE 37 CFR

09/763075

INTERNATIONAL APPLICATION NO.

PCT/DE99/02569

ATTORNEY'S DOCKET NUMBER

RBL0071

21. The following fees are submitted:

CALCULATIONS PTO USE ONLY

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :

- ☐ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1,000.00
- ☒ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$860.00
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$710.00
- ☐ International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$690.00
- ☐ International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00

ENTER APPROPRIATE BASIC FEE AMOUNT =

\$860.00

Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).

\$0.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	20 - 20 =	0	x \$18.00
Independent claims	1 - 3 =	0	x \$80.00

\$0.00

\$0.00

Multiple Dependent Claims (check if applicable). ☐

\$0.00

TOTAL OF ABOVE CALCULATIONS =

\$860.00

Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (check if applicable). ☐

\$0.00

SUBTOTAL =

\$860.00

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).

\$0.00

TOTAL NATIONAL FEE =

\$860.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). ☐

\$0.00

TOTAL FEES ENCLOSED =

\$860.00

Amount to be:

\$

refunded

\$

☒ A check in the amount of **\$860.00** to cover the above fees is enclosed.

☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.

☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. **02-0385** A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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SIGNATURE

John F. Hoffman

NAME

26,280

REGISTRATION NUMBER

February 16, 2001

DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	}	Group:
Jens Hake et al.		
Serial No.		
Filed:		
Title: METHOD FOR THE REAL-TIME		
BILLING OF TELECOMMUNICATION LINKS		
WHEN A SUBSCRIBER IS LOCATED		
OUTSIDE HIS HOME NETWORK)	

**PRELIMINARY AMENDMENT DELETING
MULTIPLE DEPENDENT CLAIMS**

Assistant Commissioner of Patents
Washington, DC 20231

Sir:

Prior to calculating the filing fee, please enter the following amendments to the application.

IN THE CLAIMS

In claim 3, line 1, delete "or 2".

In claim 4, line 1, delete "one of claims 1-3" and substitute therefor --claim 1--.

In claim 5, line 1, delete "one of claims 1-4" and substitute therefor --claim 1--.

In claim 6, line 1, delete "one of claims 1-5" and substitute therefor --claim 1--.

In claim 7, line 1, delete "any one of claims 1-6" and substitute therefor --claim 1--.

Please add the following new claims:

--8. A process according to claim 2, characterized in that upon the arising of a desire on the part of the calling subscriber (1) for a connection, an information telegram (6) that contains at least the desired target number of the called subscriber (4) and the identity of the calling subscriber (1) is first sent by the calling subscriber (1) to a special network element (7) located in the home network (3), and the special network element (7), after a check of the data contained in the received telegram message (6), establishes the connections (8, 9) to the called- and to the calling subscribers (4, 1).

9. A process according to claim 2, characterized in that the telegram message (6) is drafted and sent as a Short Message (SMS).

10. A process according to claim 3, characterized in that the telegram message (6) is drafted and sent as a Short Message (SMS).

11. A process according to claim 2, characterized in that the special network element (7), after checking the current charge credit allocated to the data, builds up the connections (8, 9) to the called- and to the calling subscribers (4, 1).

12. A process according to claim 3, characterized in that the special network element (7), after checking the current charge credit allocated to the data, builds up the connections (8, 9) to the called- and to the calling subscribers (4, 1).

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13. A process according to claim 4, characterized in that the special network element (7), after checking the current charge credit allocated to the data, builds up the connections (8, 9) to the called- and to the calling subscribers (4, 1).

14. A process according to claim 2, characterized in that the special network element is implemented in the form of a call-back server (7) with connection to intelligent network functions.

15. A process according to claim 3, characterized in that the special network element is implemented in the form of a call-back server (7) with connection to intelligent network functions.

16. A process according to claim 4, characterized in that the special network element is implemented in the form of a call-back server (7) with connection to intelligent network functions.

17. A process according to claim 5, characterized in that the special network element is implemented in the form of a call-back server (7) with connection to intelligent network functions.

18. A process according to claim 2, characterized in that the charge coverage of the connections (8, 9) takes place through an IN on-line charge-setting.

19. A process according to claim 3, characterized in that the charge coverage of the connections (8, 9) takes place through an IN on-line charge-setting.

20. A process according to claim 4, characterized in that the charge coverage of the connections (8, 9) takes place through an IN on-line charge-setting.

Respectfully submitted,

John F. Hoffman
Registration No. 26,280

Attorney for Applicant

JFH/pmp/166042 1

BAKER & DANIELS
111 East Wayne Street, Suite 800
Fort Wayne, IN 46802

Date: February 16, 2001

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11 PRTS

TRANSLATION

WO 00/11861
PCT/DE99/02569

Method for the Real-Time Billing of Telecommunication
Links When a Subscriber is Located Outside His Home Network
Specification

The invention relates to a process for the real-time charge-setting of telecommunication connections with one of the participants staying outside of his own network, according to the generic term of patent 1.

At present, in mobile radio networks, essentially two processes are to be distinguished for the real-time charge-setting of telecommunications connections. These are based on an implementation of prepaid access entitlements, so called prepaid participant relations, which, however, are not suitable for use outside of the home network in which the charge-computing takes place. This, however, is desirable in the case of modern, internationally standardized mobile radio networks with reciprocal agreement for the so-called "roaming".

For one thing, it is a known practice to perform a real-time coverage of the connection fees falling due in corresponding arrangements of the telecommunication network, as well as the interruption of the current and of further connections when a prepaid credit is used up. This process, however, does not permit use outside of the home network of the participant. The reason for this is that no real-time exchange of fee data is provided between the different

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...between the different networks no real-time exchange of fee data is provided, since that would have as a consequence too high an administrative expenditure. There, the time between the point at which the charge are falling due and the communication of the charge data and computation of the charges in the home network, can be used for connections not covered by a credit balance.

For this WO-A-98 34425 discloses a process for the real-time charge-setting of incoming connections to subscribers who are staying in a roaming network. The charge-setting takes place through a real-time control of the subscriber entitlement profiles in the home register of the home network, and the conveyance of the subscriber data to the roaming network. If a call is received from the home network for the subscriber staying in a roaming network, examination is made as to whether the subscriber is entitled to the roaming and has a sufficient credit at his disposal, before the connection is set up. A real-time charge-setting of outgoing connections from the roaming network is not possible.

In the second place, it is known that a real-time coverage of the connection fees that fall due takes place in the end-apparatus, this however being possibly undercut by inadvertently or intentionally faulty end-apparatus software.

Underlying the invention is the problem of proposing a process for the real-time charge-setting of telecommunication connections with a subscriber staying outside of his home network, which is to be implemented simply and economically, and which makes do without any, or with only slight, modifications to existing network arrangements.

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2 a [revised page]

The invention is based on the concept that the building-up of the telecommunication connection, and the real-time charge coverage take place through the home network, even if (one) of the subscribers is staying outside of his home network.

With a subscriber staying outside of his home network, abroad for example, through a configuration of the subscriber relation no direct building-up of a telecommunication connection is possibly over the foreign telecommunication network. For this in the....

[Text breaks off]

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If a connection is desired with one of the participants staying abroad, there occurs first of all a transmission of an information telegram to a special network element in the home network of that participant, in which telegram there is conveyed at least the target call number of the desired connection, as well as the identity of the calling participant. In a preferred form of execution, the data telegram consists of a brief message which is sent by means of Short Message Service (SMS). It is also provided, however, to assign to the special network element a certain call number which can be dialed by the participant. In the dialog process, then, the call number of the desired conversation participant is asked from the network element and this can be put in over the keyboard of the end apparatus.

The special network element, after checking of the data and of the allocated actual fee credit, builds up the connections to the called- and to the calling participants. In a preferred form of execution, the special network element consists of a ring-back server which simultaneously can also be responsible for the monitoring of the prepaid fees (Pre-Paid Server).

Since all the cost-causing connections are built up in the home network, it is possible here, in a customary manner, to have a real-time monitoring of the connection, and the connection can be broken off in the event that the credit is used up.

If a special protection against misuse of the communicated data is desired, the transmission of the data can occur by means of an application to the participant's identity module (SIM for example), with use of a suitable cryptographic process. The development of the requisite protocols occurs through the participant's identity module, which also performs

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the identification of the participant with respect to the network. It is thus ensured that unauthorized parties cannot telephone at the expense of other participants.

The essential advantage of the invention lies in that the initiation and control of the cost-causing connections always take place through network elements located in the home network, even if the subscriber happens to be in a foreign telecommunication network.

There is present, further, the advantage that the transmission of fee-relevant information data can occur through end-to-end encoded message transmission, with use of cryptographic keys, the issuing of which lies under control of the home network operator.

A further advantage lies in that here, by the coded transmission of the data, a misuse of subscriber relations by unauthorized persons is prevented. It is not possible for third parties to conduct conversations from the domestic and/or foreign territory at the expense of the entitled subscriber.

In the following, the invention is explained in detail with the aid of an example of execution that refers to a drawn figure. There proceed here, from the drawing and its description, further features and advantages of the invention.

The Figure 1 of the drawing, shows as an example a mobile radio subscriber 1, who is located in the territory of a foreign mobile radio network 2 that lies outside his own mobile radio network 3. The mobile radio networks 2 and 3 are, for example, mobile radio networks according to the GSM standard. It is presumed that a roaming agreement exists between the operators of the mobile radio networks 2 and 3.

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The mobile radio subscriber 1 now desires the establishment of a conversation connection to an arbitrary subscriber 4 who is to be reached, for example, under the call number 02289360. For this the subscriber 1 must first enroll in the foreign mobile radio network 2 and he is then served by the responsible mobile exchange center 5. According to the invention, it is now impossible for the mobile radio subscriber 1 directly to establish a conversation connection to the subscriber 4. The Subscriber 1 can, however, for example by means of a brief message over the Short Message Service (SMS), send a data telegram 6 to a call-back server 7 arranged in the home network 3. The data telegram, there, contains at least the target call number (02289360) of the subscriber 4 and the call number (+4927999xxxxxxx) of the calling subscriber 1. The use of the Short Message Service presents the advantage that in the short message the identity of the calling subscriber is communicated.

The call-back server 7 is bound in a known manner into the home network 3, and it is constructed as a standard component. From the received data telegram 6, the call-back server 7 extracts the call number of the called- and that of the calling subscribers, and thereupon it initiates a connection 8 to the calling subscriber 1, that is to say to the sender of the telegram 6, and establishes a connection 9 to the desired target call number, that is to say to subscriber 4. Now a conversation connection is built up between the mobile radio subscriber 1 and the subscriber 4, which connection is completely initiated and controlled by the home network 3. In a customary manner, there can now occur a real-time monitoring of the connection fees for the connections 8 and 9, in which the connection fees are then directly computed by the home network 3 and can be deducted from the prepaid credit of subscriber 1.

7 [revised page]

Patent Claims

1. A process for the real-time charge-setting of telecommunication connections between a calling subscriber (1) staying outside of his home network (3) in the zone of a foreign mobile phone radio network, and a called subscriber (4), characterized in that the building-up of the telecommunication connection between the calling subscriber (1) and the called subscriber (4), and the real-time charge-setting take place through the home network (3).
2. A process according to claim 1, characterized in that the outgoing connections are locked with the subscriber (1) staying outside of his home network (3).
3. A process according to claim 1 or 2, characterized in that upon the arising of a desire on the part of the calling subscriber (1) for a connection, an information telegram (6) that contains at least the desired target number of the called subscriber (4) and the identity of the calling subscriber (1) is first sent by the calling subscriber (1) to a special network element (7) located in the home network (3), and the special network element (7), after a check of the data contained in the received telegram message (6), establishes the connections (8, 9) to the called- and to the calling subscribers (4, 1).

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4. A process according to one of claims 1-3, characterized in that the telegram message (6) is drafted and sent as a Short Message (SMS).
5. A process according to claims 1-4, characterized in that the special network element (7), after checking the current charge credit allocated to the data, builds up the connections (8, 9) to the called- and to the calling subscribers (4, 1).
6. A process according to one of claims 1-5, characterized in that the special network element is implemented in the form of a call-back server (7) with connection to intelligent network functions.
7. A process according to one of claims 1-6, characterized in that the charge coverage of the connections (8, 9) takes place through an IN on-line charge-setting.

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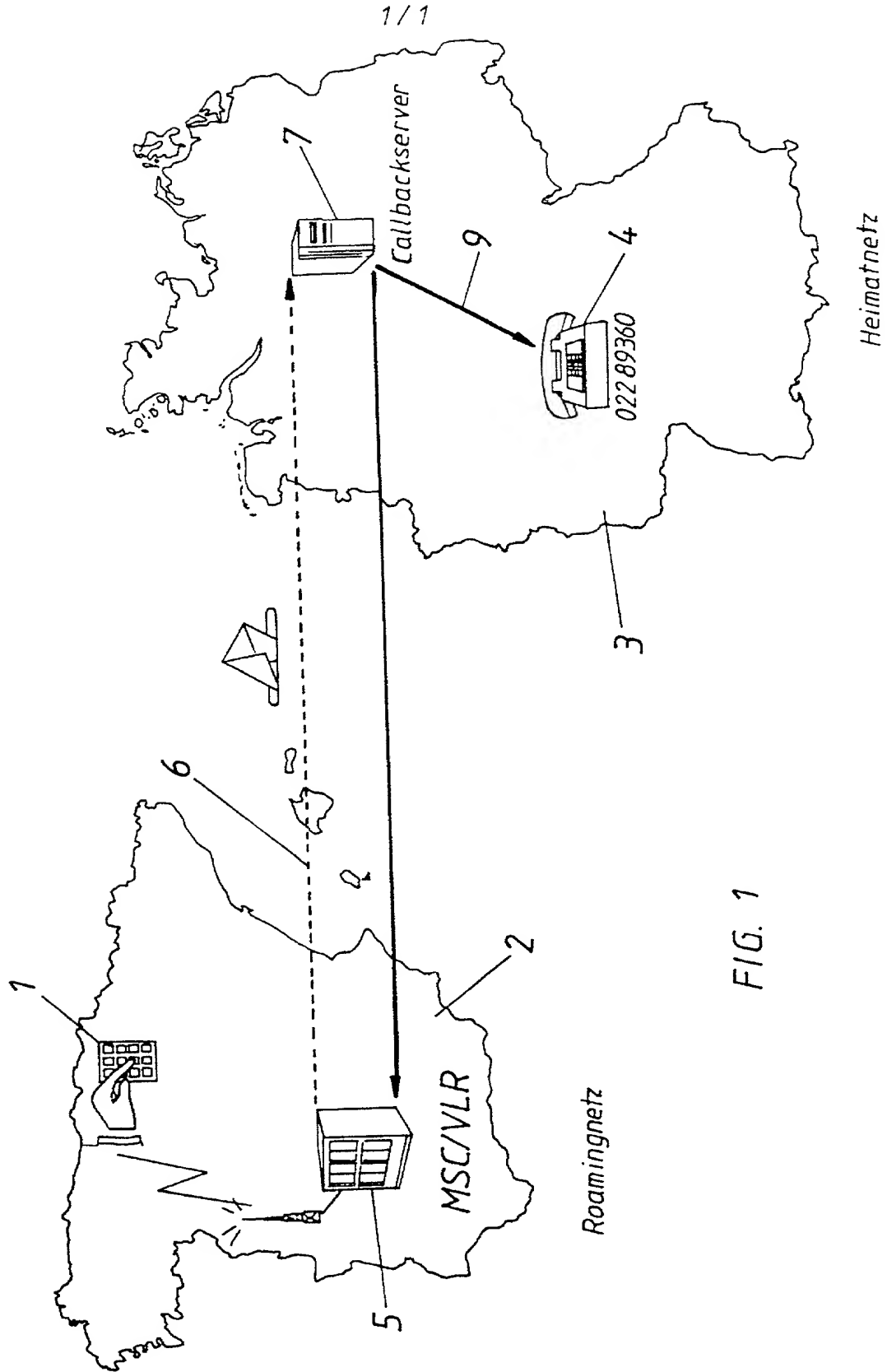


FIG. 1

Declaration and Power of Attorney for Patent Application Erklärung für Patentanmeldungen mit Vollmacht

German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

daß mein Wohnsitz, meine Postanschrift und meine Staatsangehörigkeit den im nachstehenden nach meinem Namen aufgeführten Angaben entsprechen, daß ich nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent für die Erfindung mit folgendem Titel beantragt wird:

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD FOR THE REAL-TIME BILLING OF

TELECOMMUNICATION LINKS WHEN A SUBSCRIBER

IS OUTSIDE HIS HOME NETWORK

the specification of which is attached hereto unless the following box is checked:

☒ was filed on August 18, 1999
as United States Application Number or PCT
International Application Number
PCT/DE99/02569 and was amended on
_____ (if applicable).

deren Beschreibung hier beigefügt ist, es sei denn (in diesem Falle Zutreffendes bitte ankreuzen), diese Erfindung

☐ wurde angemeldet am _____
unter der US-Anmeldenummer oder unter der
Internationalen Anmeldenummer im Rahmen des
Vertrags über die Zusammenarbeit auf dem Gebiet
des Patentwesens (PCT)
_____ und am
_____ abgeändert (falls
zutreffend).

Ich bestätige hiermit, daß ich den Inhalt der oben angegebenen Patentanmeldung, einschließlich der Ansprüche, die eventuell durch einen oben erwähnten Zusatzantrag abgeändert wurde, durchgesehen und verstanden habe.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

Ich erkenne meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Titel 37, Code of Federal Regulations, § 1.56 von Belang sind.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

German Language Declaration

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäß Title 35, US-Code, § 119 (a)-(d), bzw. § 365(b) aller unten aufgeführten Auslandsanmeldungen für Patente oder Erfinderurkunden, oder § 365(a) aller PCT internationalen Anmeldungen, welche wenigstens ein Land ausser den Vereinigten Staaten von Amerika benennen, und habe nachstehend durch ankreuzen sämtliche Auslandsanmeldungen für Patente bzw. Erfinderurkunden oder PCT internationale Anmeldungen angegeben, deren Anmeldetag dem der Anmeldung, für welche Priorität beansprucht wird, vorangeht.

Prior Foreign Applications
(Frühere ausländische Anmeldungen)

Priority Not Claimed
Priorität nicht beansprucht

198 37 460.7 Germany
(Number) (Country)
(Nummer) (Land)

19 August 1998
(Day/Month/Year Filed)
(Tag/Monat/Jahr der Anmeldung)

☐

(Number) (Country)
(Nummer) (Land)

(Day/Month/Year Filed)
(Tag/Monat/Jahr der Anmeldung)

☐

Ich beanspruche hiermit Prioritätsvorteile unter Title 35, US-Code, § 119(e) aller US-Hilfsanmeldungen wie unten aufgezählt.

(Application No.) (Filing Date)
(Aktenzeichen) (Anmeldetag)

(Application No.) (Filing Date)
(Aktenzeichen) (Anmeldetag)

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

Ich beanspruche hiermit die mir unter Title 35, US-Code, § 120 zustehenden Vorteile aller unten aufgeführten US-Patentanmeldungen bzw. § 365(c) aller PCT internationalen Anmeldungen, welche die Vereinigten Staaten von Amerika benennen, und erkenne, insofern der Gegenstand eines jeden früheren Anspruchs dieser Patentanmeldung nicht in einer US-Patentanmeldung, bzw. PCT internationalen Anmeldung in in einer gemäß dem ersten Absatz von Title 35, US-Code, § 112 vorgeschriebenen Art und Weise offenbart wurde, meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Title 37, Code of Federal Regulations, § 1.56 von Belang sind und die im Zeitraum zwischen dem Anmeldetag der früheren Patentanmeldung und dem nationalen oder im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesens (PCT) gültigen internationalen Anmeldetags bekannt geworden sind.

PCT/DE99/02569 18 August 1999

(Application No.) (Filing Date)
(Aktenzeichen) (Anmeldetag)

(Application No.) (Filing Date)
(Aktenzeichen) (Anmeldetag)

Ich erkläre hiermit, daß alle in der vorliegenden Erklärung von mir gemachten Angaben nach bestem Wissen und Gewissen der Wahrheit entsprechen, und ferner daß ich diese eidesstattliche Erklärung in Kenntnis dessen ablege, daß wissentlich und vorsätzlich falsche Angaben oder dergleichen gemäß § 1001, Title 18 des US-Code strafbar sind und mit Geldstrafe und/oder Gefängnis bestraft werden können und daß derartige wissentlich und vorsätzlich falsche Angaben die Rechtswirksamkeit der vorliegenden Patentanmeldung oder eines aufgrund deren erteilten Patentes gefährden können.

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Published

(Status) (patented, pending, abandoned)
(Status) (patentiert, schwebend, aufgegeben)

(Status) (patented, pending, abandoned)
(Status) (patentiert, schwebend, aufgegeben)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

German Language Declaration

VERTRETUNGSVOLMACHT: Als benannter Erfinder beauftrage ich hiermit den (die) nachstehend aufgeführten Patentanwalt (Patentanwälte) und/oder Vertreter mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Angelegenheiten vor dem US-Patent- und Markenamt: (Name(n) und Registrationsnummer(n) auflisten)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

John F. Hoffman, Regis. No. 26,280; Anthony Niewyk, Regis. No. 24,871; Michael D. Smith, Regis. No. 40,181; Michael S. Gzybowski, Regis. No. 32,816; Michael D. Schwartz, Regis. No. 44,326; Steven M. Hanley, Regis. No. 46,756; and Adam F. Cox, Regis. No. 46,644.

Postanschrift:

Send Correspondence to:

John F. Hoffman, BAKER & DANIELS,
111 East Wayne Street, Suite 800, Fort Wayne, IN 46802

Telefonische Auskünfte: (Name und Telefonnummer)

Direct Telephone Calls to: (name and telephone number)

John F. Hoffman, (219) 424-8000

Vor- und Zuname des einzigen oder ersten Erfinders	1-00	Full name of sole or first inventor	Jens Hake
Unterschrift des Erfinders	Datum	Inventor's signature	<i>Hake</i> Date 09.03.2001
Wohnsitz		Residence	Kemtau, Germany DEX
Staatsangehörigkeit		Citizenship	German
Postanschrift		Post Office Address	Südweg 4b, D-09240 Kemtau, Germany
Vor- und Zuname des zweiten Miterfinders (falls zutreffend)	2-00	Full name of second joint inventor, if any	Jörg Thelen
Unterschrift des zweiten Erfinders	Datum	Second Inventor's signature	<i>Thelen</i> Date 09.03.2001
Wohnsitz		Residence	Bonn, Germany DEX
Staatsangehörigkeit		Citizenship	German
Postanschrift		Post Office Address	Nesselroderstr. 27, D-53227 Bonn, Germany

(Im Falle dritter und weiterer Miterfinder sind die entsprechenden Informationen und Unterschriften hinzuzufügen.)

(Supply similar information and signature for third and subsequent joint inventors.)